Amendments to the claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (cancel)
2. (cancel)
3. (cancel)
4. (cancel)
5. (cancel)
6. (Cancel)

7. (new) A method for purifying a product comprising:

performing a flash chromatography process by:

introducing an eluent with at least one product to be purified into a flash chromatography column pre-filled with a spherical and porous silica gel having particle size between 3 and 45 μm and pores between 30 and 300Å;

causing the eluent to flow through the pre-filled column; and

obtaining a separation of the at least one product to be purified.

8. (New) The method of purifying a product of Claim 7 wherein the flash chromatography column contains between 10 mg to 1 kg of the spherical and porous silica gel.

9. (New) The method for purifying a product according to claim 7 wherein the flash chromatography column is adapted to purify synthetic products in quantities comprised between 10 mg to 100 g.

10. (new) A method for purifying a product comprising:

performing a flash chromatography process by:

introducing an eluent with at least one product to be purified into a flash chromatography column pre-filled with a semi-spherical and porous silica gel having particle size between 3 and 45 μm and pores between 30 and 300Å;

causing the eluent to flow through the pre-filled column; and

obtaining a separation of the at least one product to be purified.

11. (New) The method for purifying a product of Claim 10 wherein the flash chromatography column contains between 10 mg to 1 kg of the semispherical and porous silica gel.

12. (New) The method for purifying a product according to claim 10 wherein the flash chromatography column is adapted to purify synthetic products in quantities comprised between 10 mg to 100 g.

13. (new) A pre-filled flash chromatography column for purifying a product, comprising

a plastic tube or syringe body; and

spherical and porous silica gel having particle size between 3 and 45 μm and pores between 30 and 300Å placed inside the plastic tube or syringe body.

14. (New) The pre-filled flash chromatography column according to Claim 13 wherein the flash chromatography column contains between 10 mg to 1 kg of the spherical and porous silica gel.

15. (New) The pre-filled flash chromatography column according to claim 13 adapted to purify synthetic products in quantities comprised between 10 mg to 100 g.

16. (new) A pre-filled flash chromatography column for purifying a product, comprising

a plastic tube or syringe body; and

semi-spherical and porous silica gel having particle size between 3 and 45 μm and pores between 30 and 300Å placed inside the plastic tube or syringe body.

17. (New) The pre-filled flash chromatography column according to Claim 16 wherein the flash chromatography column contains between 10 mg to 1 kg of the semispherical and porous silica gel.

18. (New) The pre-filled flash chromatography column according to claim 16 adapted to purify synthetic products in quantities comprised between 10 mg to 100 g.

19. (new) A pre-filled flash chromatography column for purifying a product, comprising

a low-pressure glass tube or syringe body; and

spherical and porous silica gel having particle size between 3 and 45 μm and pores between 30 and 300Å placed inside the flash chromatography tube.

20. (New) The method of purifying a product of Claim 19 wherein the flash chromatography column contains between 10 mg to 1 kg of the spherical and porous silica gel.

21. (New) The pre-filled flash chromatography column according to claim 19 adapted to purify synthetic products in quantities comprised between 10 mg to 100 g.

22. (new) A pre-filled flash chromatography column for purifying a product, comprising

a low-pressure glass tube or syringe body; and

semi-spherical and porous silica gel having particle size between 3 and 45 μm and pores between 30 and 300Å placed inside the flash chromatography tube.

23. (New) The method of purifying a product of Claim 22 wherein the flash chromatography column contains between 10 mg to 1 kg of the semi-spherical and porous silica gel.

24. (New) The pre-filled flash chromatography column according to claim 22 adapted to purify synthetic products in quantities comprised between 10 mg to 100 g.